

Application No. 09/911,673
Response to Office Action

Customer No. 01933

Listing of Claims:

1. (Currently Amended) A display system comprising:
a host apparatus having an image output interface;
a display apparatus which is operated by supply of a video
signal and power from said host apparatus; and
5 a communication interface for communicating data between
said host apparatus and said display apparatus,
wherein said ~~host~~ display apparatus comprises a storing unit
for storing power consumption data, and
wherein said display apparatus transmits said power
10 consumption data stored in said storing unit to said host
apparatus via said communication interface, and said host
apparatus processes said received power consumption data and
performs power control of said display system based on said
processed power consumption data.

2. (Previously Presented) A system according to Claim 1,
wherein said communication interface has a specification for
communication which conforms with a DDC1/DDC2B/DDC2AB standard
prescribed by Video Electronics Standards Association or an
5 expansion function thereof.

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3. (Previously Presented) A system according to Claim 1, wherein said display apparatus has a mode for operating only said communication interface for communication with said host apparatus.

4. (Previously Presented) A system according to Claim 1, wherein said display apparatus comprises an alarm indicator lamp for alarm display.

5. (Currently Amended) A display system comprising:
a host apparatus having an image output interface;
a display apparatus which is operated by supply of at least one of a video signal and power from said host apparatus; and
5 a communication interface for communicating data between said host apparatus and said display apparatus,

wherein said display apparatus comprises a storing unit for storing power consumption data and a display-side communication ~~means~~ section for transmitting said power consumption data stored
10 in said storing unit, and

wherein said host apparatus comprises a host-side communication ~~means~~ section for receiving said power consumption data transmitted from said display apparatus and a power control ~~means~~ section for entirely performing power control of said

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- 15 display system based on said power consumption data received from
said host-side communication ~~means~~ section.

6. (Currently Amended) A system according to Claim 5,
wherein:

said display apparatus further comprises ~~storing means~~ a
memory for storing on-screen display information, and said
5 display-side communication ~~means~~ section transmits said on-screen
display information, and

in said host apparatus, said host-side communication ~~means~~
section receives said on-screen display information, and said
host apparatus further comprises an information superimposing
10 ~~means~~ section for superimposing said received on-screen display
information on the video signal.

7. (Currently Amended) A display system comprising:
a host apparatus having an image output interface;
a display apparatus which is operated by receiving at least
a video signal from said host apparatus; and

5 a communication interface for communicating data between
said host apparatus and said display apparatus,

wherein said display apparatus comprises ~~storing means~~ a
memory for storing on-screen display information, and a display-

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side communication ~~means~~ section for transmitting the on-screen
10 display information,

wherein said host apparatus comprises a host-side
communication ~~means~~ section for receiving the on-screen display
information transmitted by said display apparatus, and an
information superimposing ~~means~~ section for superimposing the
15 received on-screen display information on the video signal, and

wherein in said display system, said host-side communication
~~means~~ section transmits the video signal ~~superimposed on~~ having
the on-screen display information superimposed thereon, said
display-side communication ~~means~~ section receives the transmitted
20 signal, and said display apparatus displays an image of said on-
screen display information.

8. (Currently Amended) A system according to Claim 5,
wherein said communication interface has a specification for
communication between said host-side communication ~~means~~ section
and said display-side communication ~~means~~ section which conforms
5 with a DDC1/DDC2B/DDC2AB standard prescribed by Video Electronics
Standards Association or an expansion function thereof.

9. (Currently Amended) A system according to Claim 7,
wherein said communication interface has a specification for

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communication between said host-side communication ~~means~~ section
and said display-side communication ~~means~~ section which conforms
5 with a DDC1/DDC2B/DDC2AB standard prescribed by Video Electronics
Standards Association or an expansion function thereof.

10. (Previously Presented) A system according to Claim 5,
wherein said display apparatus includes a mode for operating only
said communication interface for communication with said host
apparatus.

11. (Previously Presented) A system according to Claim 7,
wherein said display apparatus includes a mode for operating only
said communication interface for communication with said host
apparatus.

12. (Original) A system according to Claim 5, wherein said
display apparatus further comprises an indicator lamp for alarm
display.

13. (Original) A system according to Claim 7, wherein said
display apparatus further comprises an indicator lamp for alarm
display.

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14. (Currently Amended) A system according to Claim 6,
wherein:

said host apparatus further comprises a first ~~storing means~~ memory for storing on-screen display information thereof, and a
5 second ~~storing means~~ memory for storing the on-screen display
information of said display apparatus which is received via said
host-side communication means section, and

said information superimposing means section converts the
on-screen display information stored in at least one of said
10 first ~~storing means~~ memory and said second ~~storing means~~ memory
into indicatable bit map information, and superimposes the
indicatable bit map information on the video signal.

15. (Currently Amended) A system according to Claim 7,
wherein:

said host apparatus further comprises a first ~~storing means~~ memory for storing on-screen display information thereof, and a
5 second ~~storing means~~ memory for storing the on-screen display
information of said display apparatus which is received via said
host-side communication means section, and

said information superimposing means section converts the
on-screen display information stored in at least one of said
10 first ~~storing means~~ memory and said second ~~storing means~~ memory

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into indicatable bit map information, and superimposes the indicatable bit map information on the video signal.

16. (Previously Presented) A system according to Claim 6, wherein said on-screen display information comprises ASCII text data.

17. (Previously Presented) A system according to Claim 7, wherein said on-screen display information comprises ASCII text data.

18. (Previously Presented) A system according to Claim 6, wherein said display apparatus is adapted to be selectively connected to a plurality of types of host apparatuses.

19. (Previously Presented) A system according to Claim 7, wherein said display apparatus is adapted to be selectively connected to a plurality of types of host apparatuses.

20. (Previously Presented) A system according to Claim 6, wherein said host apparatus is adapted to be selectively connected to a plurality of types of display apparatuses.

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21. (Previously Presented) A system according to Claim 7, wherein said host apparatus is adapted to be selectively connected to a plurality of types of display apparatuses.

22. (Currently Amended) A microdisplay apparatus adapted to be connected to a host apparatus, said microdisplay apparatus comprising:

a memory ~~means~~ for storing monitor request voltage information and monitor current consumption information as specific Extended Display Identification Data information on said microdisplay apparatus; and

a communication interface ~~means~~ for communicating with said host apparatus, and transmitting said monitor request voltage information and said monitor current consumption information to said host apparatus.

23. (Currently Amended) A display system comprising a host apparatus and the microdisplay apparatus according to Claim 22, wherein:

said host apparatus is connected to said microdisplay apparatus via a digital interface,

said microdisplay apparatus further comprises ~~detecting means~~ a detector for detecting a power voltage and a power

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current consumption, and transmits values of said power voltage
and said power current consumption detected by said ~~detecting~~
10 ~~means~~ detector to said host apparatus via said communication
interface ~~means~~, and

said host apparatus comprises a control ~~means~~ section for
controlling an output voltage of said host apparatus based on
said Extended Display Identification Data information which is
15 stored in said memory ~~means~~ of said microdisplay apparatus, and
said detected values of the power voltage and power current
consumption, all of which are communicated to said host apparatus
via said communication interface ~~means~~.

24. (New) A method for controlling a display system
including a host apparatus and a display apparatus, said method
comprising:

supplying a video signal and power from the host apparatus
5 to the display apparatus to operate the display apparatus;

transmitting power consumption data stored in the display
apparatus to the host apparatus; and

performing power control of the display system by the host
apparatus based on the power consumption data received from the
10 display apparatus.

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25. (New) A method for controlling a display system including a host apparatus and a display apparatus, said method comprising:

supplying at least one of a video signal and power from the
5 host apparatus to the display apparatus to operate the display apparatus;

transmitting power consumption data stored in the display apparatus to the host apparatus; and

performing power control of the display system by the host
10 apparatus based on the power consumption data received from the display apparatus.

26. (New) A method for controlling a display system including a host apparatus and a display apparatus, said method comprising:

supplying at least a video signal from the host apparatus to
5 the display apparatus to operate the display apparatus;

transmitting on-screen display information stored in the display apparatus from the display apparatus to the host apparatus;

superimposing the on-screen display information received by
10 the host apparatus onto the video signal supplied from the host apparatus to the display apparatus; and

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displaying an image of the on-screen display information on the display apparatus based on the video signal having the on-screen display information superimposed thereon.